## Lesson 3: Plot More Points

* Let’s locate and name points on the coordinate grid.

### Warm-up: Notice and Wonder: Points with Zero

What do you notice? What do you wonder?



### 3.1: What’s the Point?

Partner A

1. Estimate the location of each point.

| * Point
 | * Coordinates
 |
| --- | --- |
| * $A$
 | * $\left(5,1\right)$
 |
| * $B$
 | * $\left(5,2\right)$
 |
| * $C$
 | * $\left(5,3\right)$
 |
| * $D$
 | * $\left(5,4\right)$
 |

* 
1. Plot and label the points on the coordinate grid.
* 
1. What do the points have in common?
2. Plot the point with coordinates $\left(5,0\right)$ on the coordinate grid.

Partner B

1. Estimate the location of each point.

| * Point
 | * Coordinates
 |
| --- | --- |
| * $A$
 | * $\left(4,3\right)$
 |
| * $B$
 | * $\left(5,3\right)$
 |
| * $C$
 | * $\left(6,3\right)$
 |
| * $D$
 | * $\left(7,3\right)$
 |

* 
1. Plot and label the points on the coordinate grid.
* 
1. What do the points have in common?
2. Plot the point with coordinates $\left(0,3\right)$ on the coordinate grid.

### 3.2: Plotting Points Without a Grid

1. A point is labeled in the coordinate plane. Plot and label some other points. Explain or show your reasoning.
* 
1. Can you plot $\left(1,0\right)$ and $\left(0,1\right)$ accurately? Explain or show your reasoning.

### Section Summary

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In this section, we plotted and described points on the coordinate grid.



The point $P$ is 4 units from the vertical axis and 2 units from the horizontal axis. Its coordinates are $\left(4,2\right)$. The point $Q$ is 0 units from the vertical axis since it is on the vertical axis. It is 7 units from the horizontal axis. Its coordinates are $\left(0,7\right)$.

The first coordinate of a point tells us its horizontal position and the second coordinate gives its vertical position.



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